

## CLAIMS

1. A biosensor comprising: a first insulating base plate comprising a first electrode provided thereon, and a second insulating base plate comprising a second electrode provided thereon, said first and said second electrodes being opposed to each other; and a first lead provided on said first base plate and connected to said first electrode, and a second lead provided on said second base plate and connected to said second electrode,

wherein said first base plate comprises a first extension portion which extends in a length direction of said first base plate from a position corresponding to an end of said second base plate in its length direction, and has at least a part of said first lead exposed to outside, and

wherein said second base plate comprises a second extension portion which extends in a width direction of said second base plate from a position corresponding to an end of said first base plate in its width direction, and has at least a part of said second lead exposed to outside.

2. The biosensor according to claim 1, wherein said second base plate comprises two of said second extension portions, one of which extends in said width direction of said second base plate from said position corresponding to said end of said first base plate in its width direction, and the other of which extends in said width direction of said second base plate from a further position corresponding to a further end

of said first base plate in its width direction.

3. The biosensor according to claim 1, which further comprises: a sample solution supply path for supplying a sample solution containing a plurality of substrates in a manner that said sample solution contacts said first electrode and said second electrode; and a reagent which can react with at least one specific substrate in said plurality of substrates,

wherein said first base plate or said second base plate has a shape having a common part and a non-common part, said non-common part having a specific shape corresponding to said specific substrate.

4. The biosensor according to claim 3, wherein said first extension portion of said first base plate or said second extension portion of said second base plate is positioned at a specific position corresponding to said specific substrate.

5. The biosensor according to claim 4, wherein said specific position of said second extension portion of said second base plate is left position or right position, corresponding to said specific substrate, in said length direction of said second base plate.

6. The biosensor according to claim 3, wherein said plurality of substrates are glucose and lactic acid.

7. A biosensor comprising: a first insulating base plate comprising a first electrode provided thereon and a

second insulating base plate comprising a second electrode provided thereon, said first and said second electrodes being opposed to each other; a first lead provided on said first base plate and connected to said first electrode, and a second lead provided on said second base plate and connected to said second electrode; a sample solution supply path for supplying a sample solution containing a plurality of substrates in a manner that said sample solution contacts said first electrode and said second electrode; and a reagent which can react with at least one specific substrate in said plurality of substrates,

wherein said first base plate or said second base plate has a shape having a common part and a non-common part, said non-common part having a specific shape corresponding to said specific substrate.

8. A measuring apparatus for biosensor, comprising a sensor mounting portion for mounting the biosensor according to claim 3 or claim 7, wherein said sensor mounting portion comprises segmental portions respectively provided therein at positions corresponding to said common part and said non-common part of said first base plate or said second base plate, and wherein when said biosensor is mounted in said sensor mounting portion, said specific substrate in said biosensor is discriminated by the position of said segmental portion of said sensor mounting portion corresponding to said non-common part of said first base plate or said second base plate.

9. The measuring apparatus according to claim 8, wherein said sensor mounting portion comprises an integral fitting space for having said sensor fitted thereto, which space comprises: a first region corresponding to said common part of said shape of said first base plate or said second base plate; and a second region corresponding to said non-common part of said shape of said first base plate or said second base plate.

10. The measuring apparatus according to claim 9, which further comprises: a first electric connection terminal positioned therein for contact with said first region of said integral fitting space; and a plurality of second electric connection terminals positioned therein for contact with said second region of said integral fitting space,

wherein when said biosensor is mounted in said sensor mounting portion, one of said first and said second leads is connected to said first electric connection terminal, and the other of said first and said second leads is connected to one of said plurality of second electric connection terminals, and

wherein said specific substrate in said biosensor is discriminated by said one of said plurality of second electric connection terminals to which said other of said first and said second leads is connected.

11. A measuring apparatus for biosensor, comprising a sensor mounting portion for mounting therein a biosensor

comprising a first base plate and a second base plate, wherein said sensor mounting portion comprises: a first sensor mounting segmental portion corresponding to said first base plate of said biosensor; and a second sensor mounting segmental portion corresponding to said second base plate of said biosensor, and wherein said first sensor mounting segmental portion has a width different from that of said second sensor mounting segmental portion.

12. The measuring apparatus according to claim 11, wherein: said first base plate of said biosensor comprises a first electrode and a first lead provided thereon, said first lead being connected to said first electrode; said second base plate comprises a second electrode and a second lead provided thereon, said second lead being connected to said second electrode; and said first and said second electrodes are opposed to each other,

wherein said first base plate comprises a first extension portion which extends in a length direction of said first base plate from a position corresponding to an end of said second base plate in its length direction, and has at least a part of said first lead exposed to outside, and

wherein said second base plate comprises a second extension portion which extends in a width direction of said second base plate from a position corresponding to an end of said first base plate in its width direction, and has at least a part of said second lead exposed to outside.

13. The measuring apparatus according to claim 12, which further comprises: a first electric connection terminal to be connected with said exposed part of said first lead, and a second electric connection terminal to be connected with said exposed part of said second lead of said biosensor when said biosensor is mounted in said sensor mounting portion; and a driving power supply coupled to said first and said second electric connection terminals for applying a voltage to said first and said electrodes of said biosensor through said first and said second electric connection terminals.

14. The measuring apparatus according to claim 13, which further comprises: a signal processor to be operatively coupled to said first electrode and said second electrode of said biosensor for processing computation using a value of electric current flowing in said first electrode and said second electrode, thereby generating a calculated value; and an output unit operatively coupled to said signal processor for outputting said calculated value by said computation of said signal processor, whereby when said biosensor is provided with a sample solution containing a substrate, and is mounted in said sensor mounting portion, the amount of said substrate is calculated by said computation processing of said signal processor, and said calculated value is outputted to said outputting unit.

15. The measuring apparatus according to claim 12, which further comprises a sensor ejection member provided at

said sensor mounting portion for ejecting said biosensor to outside of said sensor mounting portion in a manner that said biosensor is provided with a push-out force by said ejection member.

16. The measuring apparatus according to claim 15, wherein said push-out force by said ejection member is provided to abutment between said ejection member and said second extension portion of said biosensor.